

## WHAT IS CLAIMED IS:

1. A solid electrolytic capacitor comprising:

an anode composed of a metal;

5 a dielectric layer composed of an oxide of said metal

and formed on the surface of said anode;

an electrolytic layer; and

a cathode layer in this order,

said cathode layer having a laminated structure of a

10 carbon layer and a metal layer composed of metal particles

having an average particle diameter of not larger than 0.05

μm and formed on said carbon layer.

2. The solid electrolytic capacitor according to Claim

15 1, wherein

said average particle diameter of said metal particles  
is not smaller than 0.01 μm.

3. The solid electrolytic capacitor according to Claim

20 1, wherein

said metal particles include at least one kind of metal  
selected from the group consisting of silver, gold, and  
platinum.

25 4. The solid electrolytic capacitor according to Claim

1, wherein

    said metal layer includes a protective colloid.

5   5. The solid electrolytic capacitor according to Claim  
1, wherein

    said electrolytic layer is composed of a conductive  
polymer.

10   6. The solid electrolytic capacitor according to Claim  
1, wherein

    said anode includes at least one kind of metal selected  
from the group consisting of tantalum, aluminum, niobium, and  
titanium.

15   7. A method of manufacturing a solid electrolytic  
capacitor including the steps of:

    forming on the surface of an anode composed of a metal  
a dielectric layer composed of an oxide of said metal;

    forming an electrolytic layer on said dielectric layer;

20   forming a carbon layer on said dielectric layer; and

    forming on said carbon layer a metal layer composed of  
metal particles having an average particle diameter of not  
larger than 0.05  $\mu$ m.

25   8. The method of manufacturing the solid electrolytic

capacitor according to Claim 7, wherein

    said average particle diameter of said metal particles  
is not smaller than 0.01 µm.

5       9. The method of manufacturing the solid electrolytic

capacitor according to Claim 7, wherein

    said step of forming said metal layer includes the steps  
of:

10      applying on said carbon layer a metal paste including  
said metal particles; and

    drying said metal paste at a temperature of 150°C or higher  
after applying said metal paste.

15      10. The method of manufacturing the solid electrolytic  
capacitor according to Claim 7, wherein

    said step of forming said metal layer includes the steps  
of:

    preparing a metal paste by mixing said metal particles  
and a protective colloid in an organic solvent; and

20      forming said metal paste on said carbon layer.

11. A method of manufacturing a solid electrolytic  
capacitor including the steps of:

    forming on the surface of an anode composed of a metal  
25 a dielectric layer composed of an oxide of said metal, an

electrolytic layer, and a carbon layer in this order;  
preparing a metal paste by mixing metal particles and  
a protective colloid in an organic solvent; and  
forming a metal layer by applying said metal paste on  
5 said carbon layer.